

Mr. Gerard P. Carroll
National Gypsum Company
Route 2, Box 109
Shoals, Indiana 47581

Re: 101-11771-00003
First Administrative Amendment to
FESOP 101-5693-00003

Dear Mr. Carroll:

National Gypsum Company was issued a FESOP on December 13, 1996 for a gypsum wallboard manufacturing process. A letter requesting approval to construct a new gypsum crusher was received on January 13, 2000. Pursuant to 326 IAC 2-8-10(a)(15)(E), this approval is granted through an administrative amendment because, even though the potential to emit is above the levels requiring a minor permit revision, the new crusher is subject to the New Source Performance Standard (NSPS), 40 CFR 60.670 Subpart OOO (Standards of Performance for Nonmetallic Mineral Plants) and the requirements of this federal rule are the most stringent applicable requirements.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Management (OAM).
2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Administrative Amendment
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. That pursuant to the New Source Performance Standards (NSPS), Part 60.670, Subpart

OOO, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- (a) Commencement of construction date (no later than 30 days after such date);
- (b) Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- (c) Actual start-up date (within 15 days after such date); and
- (d) Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, IN 46206-6015

The application and enforcement of these standards have been delegated to the IDEM-OAM. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the provisions of 326 IAC 2-8-10 the permit is hereby administratively amended as follows: (additions are shown in bold, deletions are shown as strikeouts):

- (1) The following description has been added to Section A.3 of the FESOP, describing the new crusher.
 - (t) **one (1) wallboard crusher used to break wallboard into small 2 x 2 inch squares, with a 330 horsepower diesel engine and a maximum capacity of 34 tons of wallboard per hour.**
- (2) The following Section D.9 has been added to the FESOP. A condition has been included to limit the amount of diesel fuel used in the crusher. This limit is necessary in order to limit the potential to emit NOx to less than 100 tons per year, which will allow the source to maintain FESOP status. There is no need to change any of the other limits in the FESOP.

SECTION D.9

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

one (1) wallboard crusher used to break wallboard into small 2 x 2 inch squares, with a 330 horsepower diesel engine and a maximum capacity of 34 tons of wallboard per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.9.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the woodworking facilities shall not exceed 41.06 pounds per hour when operating at a process weight rate of 34 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.9.2 Particulate Matter (PM) [40 CFR Part 60, Subpart OOO]

Pursuant to the New Source Performance Standards, 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), the crushing operations shall be limited to 15 percent opacity or less.

D.9.3 Nitrogen Oxides (NOx) [326 IAC 2-8]

Pursuant to 326 IAC 2-8, the amount of diesel fuel used for this facility shall be limited to 46,013.5 gallons per 12 consecutive month period. This is equivalent to NOx emissions of 13.9 tons per year from the internal combustion engine. Compliance with this condition is necessary to limit the NOx emissions from the entire source to less than 100 tons per year; therefore the source is not subject to the requirements of 326 IAC 2-7 (Part 70).

Compliance Determination Requirements

D.9.4 Testing Requirements [326 IAC 2-1-4(f)]

Pursuant to 40 CFR 60.675(c) and 40 CFR 60.11, opacity tests to determine compliance with operation condition D.9.2 shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. These tests shall be performed according to 326 IAC 3-6 (Source Sampling Procedures) utilizing U. S. EPA Method 9 (40 CFR Part 60, Appendix A) or other methods as approved by the Commissioner.

Compliance Monitoring Requirements

D.9.5 Continuous Wet Suppression

Nonfugitive emissions from the crushing operation shall be controlled by utilizing a wet suppression system on an as-needed basis in order to meet the requirements of condition D.9.2.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.9.6 Record Keeping Requirements

To document compliance with the NSPS, the Permittee shall maintain all records required by 40 CFR 60.676.

D.9.7 Reporting Requirements

- (a) To document compliance with the NSPS, Subpart OOO, the Permittee shall report the information required by 40 CFR 60.676, including, but not limited to the following:
 - (1) As required by 40 CFR 60.676(f), the Permittee shall report the results of performance tests required by Condition D.9.4.

- (2) A notification of the actual date of initial startup of the crusher shall be submitted to the address listed in Section C - General Reporting Requirements.

All reports shall also be submitted to the U.S. EPA at the following address:

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) In order to document compliance with Condition D.9.3, a quarterly summary of the diesel fuel usage, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The following table summarizes the limited potential to emit of all of the permitted emission units at this source, including the new crusher.

Limited PTE Table

Facility	PM (tons/yr)	PM10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)
All previously permitted facilities	101	55	neg.	85.1	2	23
crusher with diesel engine	3.3	3.3	3.0	13.9	3.6	9.7
Total Limited PTE	104.3	58.3	3.0	99.0	5.6	32.7

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Nisha Sizemore, at (800) 451-6027, press 0 and ask for Nisha Sizemore or extension (2-8356), or dial (317) 232-8356.

Sincerely,

National Gypsum Company
Shoals, Indiana
Permit Reviewer: Scott Fulton

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Amended by: Nisha Sizemore

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Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

Attachments

nls

cc: File - Martin County
U.S. EPA, Region V
Martin County Health Department
Air Compliance Section Inspector - Gene Kelso
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
OFFICE OF AIR MANAGEMENT**

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 1-800-451-6027

**National Gypsum Company
Gold Bond Building Products Division
U.S. Highway 50, Shoals, Indiana 47581**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR Part 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: F101-5693-00003	
Original issued by Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: December 9, 1996

First Significant Permit Revision 101-8165, issued on July 24, 1997

Second Minor Permit Revision 101-10555, issued March 4, 1999.

First Administrative Amendment: 101-11771	Pages Affected: 7, 49a, and 49b
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

- (k) the use of paved and unpaved roadways and parking lots with public access.
- (l) the use of underground conveyors.
- (m) the purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (n) the use of equipment used to collect material that might be released during malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (o) blowdown for sight glass, boilers, compressors, pumps, and cooling towers.
- (p) the use of one (1) 20 Horsepower (HP) gasoline-fired emergency generator.
- (q) the use of one (1) diesel fuel-fired emergency generator.
- (r) the use one (1) 200 HP diesel fuel-fired fire pump.
- (s) two (2) kerosene storage tanks.
- (t) one (1) wallboard crusher used to break wallboard into small 2 x 2 inch squares, with a 330 horsepower diesel engine and a maximum capacity of 34 tons of wallboard per hour.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

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